

#18C/18
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Farb et al.
Serial No. : 09/652,345
Filed : August 31, 2000
Title : EFFECT OF STEROIDS ON NMDA RECEPTORS DEPENDS ON SUBUNIT
COMPOSITIONS

Art Unit : 1646
Examiner : R. Li

Commissioner for Patents
Washington, D.C. 20231

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AMENDMENT AND RESPONSE

In response to the action mailed December 3, 2001, please amend the application as follows and consider the following remarks.

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In the specification:

Please replace the paragraph beginning at page 3, line 32, with the following rewritten paragraph.

C1 --Figure 2 is a compilation of graphical representations of data which indicate that pregnenolone sulfate (PS) inhibits α -amino-3-hydroxy-5-methyl-4-isoxazolepropionate (AMPA) and kainate receptor function. Figures 2(A) through 2D are representative traces showing the inhibitory effect of 100 μ M PS on kainate-induced currents of oocytes injected with (A) rat brain poly(A)⁺ RNA, (B) GluR1 cRNA, (C) GluR3 cRNA, (D) GluR6 cRNA. The kainate concentration used in (A)-(C) was 100 μ M, and in (D) was 10 μ M. The *solid bar* represents the period of kainate (KA) application; the *open bar* indicates the period of PS exposure. Figure 2E is a graph of relative current for the indicated Kainate concentration. The administration of PS (open symbols) is seen to decrease maximum kainate responses of GluR1 (●, ○), GluR3 (■, □), and GluR6 (▲, △) receptors. Each *data point* represents the mean of three experiments.

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